BETT TTEB

Case Studies and Educational Aids Survey

A RESEARCH REPORT

Case Studies and Educational Aids Survey

A RESEARCH REPORT

A Survey to Find Sources of
Case Studies and Educational Aids
Relating to Energy Conservation
in Buildings

Sponsored by the
Energy Conservation and Oil Substitution Branch
Energy, Mines and Resoures Canada

Prepared by
Engineering Sciences Division
Ontario Research Foundation

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The Buildings Energy Technology Transfer Program (BETT) of EMR has been created to assist building owners, users and practitioners active in the design, construction and operation of buildings in identifying technical obstacles to energy conservation. Through a nationwide network of research agencies and private sector consultants, BETT carries out research and development projects and provides the audiences mentioned above with technical reports, how-to manuals, training manuals, audio-visual aids and data bases to help them overcome these obstacles.

For further information on the BETT program please contact:

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ABSTRACT

A survey was conducted to determine the sources of buildings energy conservation case studies and educational aids available in Canada. In total 785 consultants, educational institutions, building developers, manufacturers and government agencies were contacted. The response rate was 27.4%; the useful response rate was 15.8%.

The results of this survey provide:

1. an indication of those agencies in Canada most actively involved with energy conservation in buildings

2. a listing of those agencies in Canada having case study information and/or educational aids materials available related to energy conservation in buildings

3. a broad description of the subject area of the case studies and educational aids listed.

The results of this study are intended to provide a source listing of energy conservation case studies and educational aids to the Buildings Energy Technology Transfer Program lead agencies and others conducting similar studies in the buildings sectors for use as resource materials.

RESUME

On a fait un sondage pour déterminer les sources de référence existantes concernant les études de cas et les instruments didactiques en matière d'économie d'énergie dans les bâtiments au Canada. On a communiqué avec 785 firmes d'experts-conseils, établissements d'enseignement, entrepreneurs en construction, fabricants et organismes gouvernementaux. On a reçu une réponse de 27,4 p. 100 des personnes avec qui on a pris contact, et 15,8 p. 100 des réponses obtenues se sont avérées utiles.

Ce sondage :

1. a indiqué les organismes qui, au Canada, sont le plus actifs dans le domaine de l'économie d'énergie dans les bâtiments;

2. a permis de dresser une liste des organismes canadiens qui disposent d'études de cas ou instruments didactiques en ce qui concerne l'économie d'énergie dans les bâtiments et

3. a permis d'obtenir une description générale du sujet des études de cas et du domaine d'application des instruments didactiques recensés.

L'étude vise à procurer aux organismes directeurs de la recherche effectuée dans le cadre du Programme de transfert de la technologie de l'énergie dans les bâtiments et aux autres organismes qui mènent des études semblables dans le secteur du bâtiment une liste des sources de référence possibles en ce qui concerne les études de cas et les instruments didactiques se rapportant à l'économie d'énergie.

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Le Programme de transfert de la technologie de l'énergie dans les bâtiments (Programme TTEB) a pour objectif premier de promouvoir l'adoption de mesures d'économie de l'énergie dans les bâtiments par le transfert de compétences technologiques appropriées aux personnes intéressées. En d'autres termes, il vise à communiquer la technologie de l'économie de l'énergie aux propriétaires, concepteurs et gérants d'immeubles, ainsi qu'aux entrepreneurs en construction, sous une forme qui a fait ses preuves sur le plan technique et économique. Les renseignements communiqués doivent naturellement être des plus récents et d'application immédiate pour les gens du métier; ils doivent aussi apporter à ces derniers les données techniques dont ils ont besoin.

Il est essentiel tant pour la mise au point que pour le transfert de ces compétences qu'on dispose d'études de cas bien documentées sur les mesures d'économie d'énergie. Le transfert technologique lui-même peut être facilité beaucoup par l'emploi d'instruments didactiques bien préparés, éprouvés et facilement accessibles, tels des montages audio-visuels, des modèles à l'échelle et des publications vulgarisées.

La présente étude avait pour objet de repérer les sources possibles d'études de cas et d'instruments didactiques pouvant servir de référence à ceux qui font de la recherche, mènent des projets de développement ou diffusent de l'information dans le domaine de l'économie d'énergie dans les bâtiments. De portée nationale, elle comportait à la fois un questionnaire écrit et un sondage téléphonique. Au nombre des organismes avec lesquels on a communiqué se trouvaient :

1. des organismes gouvernementaux,
2. des firmes d'ingénieurs et d'architectes,
3. des fabricants de matériel approprié,
4. des établissements d'enseignement et
5. des entrepreneurs en construction.

On a envoyé 785 questionnaires et reçu une réponse utile à 15,8 p. 100 d'entre eux.

Les résultats du sondage sont présentés en deux sections : l'une porte sur les études de cas et l'autre, sur les instruments didactiques. La première se subdivise en rubriques correspondant à des secteurs précis du bâtiment et donne une indication :

1. des firmes qui sont le plus actives dans le domaine de l'économie de l'énergie dans les bâtiments et qui ont à leur disposition des études de cas pertinentes, et

2. du domaine général des études de cas signalées.

La seconde section, qui se subdivise aussi en rubriques correspondant aux secteurs du bâtiment, donne une indication :

1. des firmes qui ont à leur disposition des instruments didactiques touchant l'économie de l'énergie dans les bâtiments et

2. du sujet et de la nature de ces instruments, à savoir : véhicule, thème et public visé.

Les rubriques sous lequelles les renseignements sont présentés sont les suivantes :

1. bureaux
2. immeubles résidentiels à plus de trois étages
3. immeubles résidentiels d'au plus trois étages
4. commerces de détail
5. entrepôts et industrie légère
6. restaurants
7. écoles
8. hôtels et motels
9. hôpitaux
10. bâtiments divers tels installations sportives, bâtiments de l'industrie lourde et installations de sécurité.

Il ressort d'un examen des réponses obtenues que les organismes gouvernementaux détiennent le plus grand nombre d'études de cas et instruments didactiques.

La présente étude est de portée limitée, car elle ne procure pas une description détaillée de la teneur des études de cas et de la nature des instruments didactiques recensés. On recommande pour y donner suite d'acquérir les rapports des études de cas et les instruments didactiques.

1. BACKGROUND

Case studies can be valuable reference material for illustrating the technical and economic viability of actual energy conservation measures implemented in buildings. Through previous studies undertaken by the Ontario Research Foundation the lack of case study information with sufficient detail to allow an accurate assessment of the true value of a particular conservation measure was realized. Many of those case studies reviewed contained insufficient detail on the cost aspects of the retrofit measure(s) implemented. For those cases where a number of retrofit measures were implemented simultaneously the costs and energy savings associated with each separate measure was often lacking. In addition few cases provided comprehensive post-retrofit data and analysis.

As a first step in addressing this problem a 'minitask' was undertaken to determine the minimum requirements for a case study to meet the needs of the Buildings Energy Technology Transfer (BETT) Program. The following is a brief description of the results obtained through this minitask.

1.1 Case Study Minitask

1.1.1 Necessary Case Study Components

There are essentially three key ingredients to a well documented case study:

1. description of each conservation measure or retrofit in detail
2. the total cost of each measure
3. the total savings attributable to each measure.

From the latter two the payback period may be calculated.

1.1.2 Noted Shortcomings to Existing Case Studies

Fourteen buildings energy conservation technical reports were reviewed containing a total of 37 case studies. The following is a list of their most important shortcomings:

1. Energy Savings

   Energy savings are based on manufacturers or energy consultants projected claims which are often not properly substantiated. These claims are generally based on isolated tests or theoretical calculations rather than actual field tests.

2. Total Cost

   The total cost reported is often lacking in accuracy:

   - consultants fees not included

   - operating expenses not included

   These must be combined with capital and installation costs to yield the total cost.

3. Energy Savings and Retrofit Costs not Separated

   When two or more retrofit measures are undertaken simultaneously the costs and energy savings due to each separate retrofit are usually not distinguished. Although the difficulties in compiling such data are appreciated the problem of assessing the cost effectiveness of an individual retrofit measure remains.

This situation is not too critical when retrofits are interrelated but poses a problem when unrelated measures are lumped together. For example, a measure affecting air infiltration and another affecting boiler efficiency, the total energy savings based on fuel consumption cannot conclusively be split into energy savings for each of the measures independently.

4. Detail

Often sufficient detail is not given so that a thorough understanding of the retrofit measure can be gained. For instance, to say "the air volumes were cut back to meet new guidelines" says nothing of the method used to cut back air volumes. These could include vortex adjustment at the fan, partial damper closure, resheaving or motor down-sizing.

1.1.3 Details to Provide when Compiling Case Studies

When soliciting and compiling case studies, the following detailed information should be provided:

1. What retrofit measure(s) were undertaken?
2. What was the capital cost?
3. What was the installation cost (including consultant fees)?
4. What is the operational cost?
5. What was the energy consumption level before retrofit for the previous year(s)?
6. What is the new consumption rate after retrofit?
7. Were any other retrofit measures initiated during the same test period? If yes, provide details as per points 1-6 above.

NOTE: Individual metering of energy consumption is necessary to distinguish the savings attributable to each retrofit measure. When a number of retrofit measures are undertaken simultaneously each measure should be metered seperately and independently. Alternatively a step-wise retrofit program may be considered which effectively allows for the control and monitoring of individual retrofit measures.

Although the basic requirements for a well documented case study had been established through the previously noted minitask, the problem of acquiring such information still existed. The acquisition process required the identification of potential case study sources and information regarding the specifics of the retrofit measure(s) implemented.

This survey was initiated as a first step in acquiring well documented case studies by identifying the potential sources of such information. The scope was expanded to include the identification of potential sources of educational aids (audio visuals, fact sheets, 'how-to' manuals, etc.) for energy conservation in buildings.

Follow-up work will be needed to determine the specific content of the case studies and educational aids prior to acquisition.

The results of this survey are intended to provide a listing of the potential sources of case studies and educational aids related to energy conservation in buildings in Canada. These materials may be useful to the Buildings Energy Technology Transfer Program lead agencies and others conducting similar studies for use as resource materials.

The objectives of this study are as follows:

1. to provide a listing of the potential sources of case studies and educational aids related to energy conservation in buildings in Canada, categorized by specific buildings types

2. to provide a listing of those agencies (consulting, government, educational, developers and manufacturing) in Canada most actively involved in the area of energy conservation in buildings, also categorized by specific building types

3. to broaden interest and awareness in the Buildings Energy Technology Transfer (BETT) Program through contact with these agencies.

This study was conducted as follows:

1. questionnaire development - an outline of the questionnaire is given in Appendix I.

2. mailing list development - reference sources for the mailing list includes:

    1. "Building Energy Systems Analysis Survey Report", Public Works Canada, Ottawa, April, 1983. The mailing list for this survey as developed by Leslie Jones and Associates Inc., Ottawa, 1982 (unpublished).

    2. "Canada Consulting Engineers" directory, 10th Edition, Volume 2, Association of Consulting Engineers of Canada, 1982.

    3. buildings energy conservation Research, Development and Dissemination surveys conducted by the Buildings Energy Technology Transfer (BETT) Program lead agencies, 1982.

    4. "Subcontractor Contact Report" an internal BETT Program document, Ontario Research Foundation, June, 1982.

    5. "Residential Retrofit Training Activities in Canada", Energy, Mines and Resources Canada, Ottawa, October 1982, Appendix D, list of survey recipients and respondents.

3. questionnaire dissemination to those agencies identified on the mailing list.

4. questionnaire response analysis as per objectives (1) and (2) previously stated.

The mailing list of questionnaire recipients developed from the above noted sources is comprised of the following target groups:

1. government agencies
2. engineering and architectural consulting firms
3. related equipment manufacturers
4. educational institutions
5. building developers

The scope of this survey includes the following buildings sectors:

1. offices
2. high-rise residential
3. low-rise residential
4. retail
5. warehouse/light industrial
6. restaurants
7. schools
8. hotels/motels
9. hospitals
10. miscellaneous sectors such as sports facilities, heavy industrial buildings and security installations.

Buildings sectors 1 to 6 noted above are currently under investigation by the Buildings Energy Technology Transfer (BETT) Program lead agencies. It is anticipated that the BETT Program will be expanded to include such buildings as schools, hotels, motels and hospitals. The miscellaneous sectors are included as an item of interest resulting from the information received via the questionnaire responses.

5.1 Analysis of the Survey Responses

Total number of questionnaires sent	= 785	
Total number of questionnaires returned unopened	= 58	(7.4%)
Total number of responses received	= 215	(27.4%)
Total number of useful responses received	= 124	(15.8%)

As indicated, a number of responses were received which did not prove useful to this study. These include:

1. those agencies who indicated they have no relevant information available
2. incorrectly completed questionnaires from which no useful information could be extracted.

A listing of the questionnaire recipients and respondents is given as Appendix II. Each firm listed has been sent a questionnaire form. For those firms which provided a useful response the respective contact name and telephone number is included with this listing.

5.2 Compilation of Survey Responses

The information contained in the useful responses gathered through this survey has been tabulated according to the two subject areas:

1. case studies
2. educational aids.

Tables 1 to 10 inclusive present the compilation of the questionnaire responses dealing with case studies. Tables 11 to 17 inclusive present the compilation of the questionnaire/telephone responses dealing with educational aids. These tables are provided at the end of this report.

5.2.1 Case Studies

The portion of the questionnaire dealing with case studies requested each agency to indicate "... the NUMBER of buildings you have been involved with (for energy conservation retrofits) under the appropriate level and building sector" (see Appendix I for full details). The question is designed to provide an indication of:

1. which firms are most active in the field of buildings energy conservation, ranked according to the number of buildings reported
2. the potential sources of case study information. Although the buildings reported may not be documented in the form of a case study the information on-hand may be useful as is or developed into a case study format.

Tables 1 to 10, present the compilation of the questionnaire responses dealing with case studies. Each table represents a specific building type and contains the following:

1. a listing of those agencies in Canada that have case study information available related to energy conservation in buildings, ranked according to the number of buildings studies conducted as reported by each agency

2. an indication of the subject area of the study(s) i.e. energy audit, computer analysis, equipment design/installation or building/equipment performance monitoring.

These tables are designed to be cross referenced with the information contained in Appendix II (i.e. contact person and telephone number) for further information regarding the specific content and availability of the case studies.

5.2.2 Educational Aids

The portion of the questionnaire dealing with educational aids requested each agency to indicate if they "Have educational aids that could be made available" (yes/no). For those agencies who responded affirmatively a telephone survey was conducted to determine the topic, medium and intended audience of the educational aid(s).

Tables 11 to 17 present the compilation of the questionnaire responses dealing with educational aids. Again each table represents a specific building type but contains the following information:

1. a listing of those agencies in Canada having educational aids available related to energy conservation in buildings

2. an indication of the topic, medium and target audience of each educational aid.

These tables as well are designed to be used in conjunction with Appendix II should further information regarding the content and acquisition of the educational aids be required.

6.1 Limits to this Study

The Ontario Research Foundation makes no claim as to the actual validity of the information contained in the survey responses received.

Although an attempt has been made to make this survey as comprehensive as possible, some agencies may not have been included. The major federal government bodies such as PWC, Energy Mines and Resources, CMHC and NRC have been omitted. Their efforts are well documented through sources such as:

1. "Federal, Provincial and Agency Initiatives in Domestic Energy Conservation", CMHC, Ottawa, August, 1981.

2. "Review of the Federal Governments R,D and D Activities Related to Energy Use and Conservation in Buildings" Volumes 1 and 2, EMR, Ottawa, June, 1982.

3. "Canadian Office Building Energy Management Task Force Report on Federal Initiatives in Conservation and Renewable Energy", Dessau Consultants Inc., October, 1982.

Tables 1 to 17 as provided do not list the specific contents of the case studies or educational aids reported. The questionnaire was designed in such a manner as to allow each agency to indicate:

1. the number of buildings they have conducted energy conservation studies on

2. the availability of educational aids.

The intent is to assemble a comprehensive listing of the potential sources of case studies and educational aids related to energy conservation in buildings in Canada. This information is provided as a first step in the acquisition process. Through the use of the details provided in Appendix II those agencies listed in Tables 1 to 17 may be contacted to determine the specific content and availability of the case study information and educational aids reported.

6.2 Analysis of the Survey Results

A review of the responses received indicates that the largest source of case studies and educational aids related to energy conservation in buildings is held by government agencies. The second largest such group is consulting firms active in the field of energy conservation. Relatively little in the way of case studies and educational aids is available through such agencies as educational institutions and building developers. Noteworthy is the lack of case study information available from manufacturers. Product literature reporting the energy savings from their equipment is documented; however from discussions with government and manufacturing contacts it was found that the majority of the studies conducted to determine these savings are completed in the U.S., the reports of which are often not available in Canada.

One major manufacturer of HVAC equipment responded to this survey - Trane Air Conditioning. They report having no case study information available, however they do maintain a library of educational aids used as marketing tools. Although not contacted it is expected that other major HVAC system equipment manufacturers likewise maintain a library of educational aids as marketing tools for their particular products.

6.3 Availability of Case Studies

One response commonly recieved from consulting firms was that the case study information may be available subject to client approval. Thus the availability status of these documents would have to be determined upon contact with the consulting firm concerned.

A limited number of agencies publish, on a regular basis, case study fact sheets. These are condensed case study reports which generally exhibit many of the shortcomings previously noted (section 1.1, this report) such as:

1. a lack of detail concerning the retrofit procedures and techniques

2. costs and energy savings lumped together rather than broken down into the individual retrofit measures implemented

3. post-retrofit data and analysis often not included.

The difficulty with these shortcomings lies in evaluating the effectiveness of a single retrofit measure when a number of retrofits have been simultaneously undertaken. Regardless, these case study fact sheets may provide information of interest. A listing of the agencies offering these readily available materials is provided below.

1. Power Engineering
   Technical Publishing Co.
   1301 S. Grove Ave.,
   Burlington, Illinois
   60010

   - a magazine published regularly in the U.S. which has been found to contain a number of detailed case studies.

2. Ontario Hydro
   700 University Avenue,
   Toronto, Ontario
   M5G 1X6

   - the bulletin "Energy Management" published regularly outlines extraordinary energy conservation achievements across a variety of buildings sectors.

3. Pilot Project Program
   Nova Scotia Department of Mines and Energy
   P.O. Box 668
   Halifax, Nova Scotia
   B3J 2T3

   - a bulletin "Project Summary" published regularly provides details of specific conservation projects they have undertaken.

4. Energy Secretariat
   Government of New Brunswick
   Box 6000
   Fredericton, N.B.
   E3B 5H1

   - a bulletin "Project Summary" similar to that noted above.

5. Ontario Ministry of Municipal Affairs and Housing
   Housing Renovation and Energy Conservation Unit
   14th Floor, 101 Bloor Street West
   Toronto, Ontario
   M5S 1P8

   - a bulletin "Home Energy Fact Sheet" and related pamphlets which are more 'how-to' oriented for the homeowner.

6.4 Cost to Purchase Case Studies and Educational Aids

As an item of interest the survey also allowed for a response indicating the approximate cost to purchase each case study. The responses received varied considerably, from "free" to $2,000+. As expected, the exact cost to purchase each case study or educational aid would have to be determined upon further contact.

The results of this study indicate that the largest and least costly source of buildings energy conservation case studies and education aids are held by government agencies. Studies conducted at this level are normally quite comprehensive including extensive follow-up analysis and data. For those wishing to acquire such materials it is suggested that these sources be investigated first.

Many consulting firms also have valuable case study and educational aids materials available, normally for a fee and may require client consent prior to release.

This study is limited in that it does not provide an indication of the exact subject matter of the case studies reported. This activity and the subsequent acquisition of both case studies and educational aids is recommended as a follow-up phase to this survey.

The follow-up process involves contacting the agencies of interest to determine the specific content and availability of the desired case studies and educational aids. This would be followed by acquisition of the materials if appropriate. These materials may then be used as support for technical studies and/or technology transfer activities.

It is recommended that each of the Buildings Energy Technology Transfer (BETT) Program lead agencies act independently in the acquisition process.

The materials acquired, particularily the educational aids, could be stored in a central BETT Program library for ease of access and dissemination.

. Firms with Case Studies Available

Table 1: Office Buildings Sector

Table 2: High-Rise Residential Buildings Sector

Table 3: Low-Rise Residential Buildings Sector

Table 4: Retail Buildings Sector

Table 5: Warehouse/Light Industrial Buildings sector

Table 6: Restaurant Buildings Sector

Table 7: School Buildings Sector

Table 8: Hotel/Motel Buildings Sector

Table 9: Hospital Buildings Sector

Table 10: Miscellaneous Buildings Sectors

. Firms with Educational Aids Available

Table 11: Office Buildings Sector

Table 12: High-Rise Residential Buildings Sector

Table 13: Low-Rise Residential Buildings Sector

Table 14: Retail Buildings Sector

Table 15: Warehouse/Light Industrial Buildings Sector

Table 16: Restaurant Buildings Sector

Table 17: School Buildings Sector

TABLE 1: Office Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
The ECE Group	20	15	400+	2
Engineering Interface Ltd.	325		50	200
Association of Municipalities of Ontario	185	185	185	185
Ontario Ministry of Government Svces. Property Management Div.	132			
MCW Consultants Ltd.	50+	50+	50+	50+
Energy Systems Company			50	2
Chorley and Bisset Ltd.	36	21	1	
Nova Scotia Department of Mines and Energy - Enersave Program	30	30		
Alberta, University of, Dept. of Physical Plant	20	10	20	20
All-Energy Engineering Ltd.	18	10	20	20
Keith Associates Ltd.	15	15	15	15
H.H. Angus and Associates Inc.	15	10	5	15
Robbins Elliott Assoc. Ltd.				40
CMA Chalifour, Marcotte et Assoc. Inc.	15	5	1	3
Giffels Associates Ltd.	14	6	6	
ShawMont Newfoundland Ltd.	14	2	10	1
Rybka, Smith and Ginsler Ltd.	12	5	20+	5
Acres Consulting Services	12		1	1
Regional Municipality of Hamilton Wentworth	12			4
Government of Yukon	11	11	4	1
The Conserver Group	11		5	2
Yoneda and Associates Ltd.	10	7	50+	6
Ontario Hydro	10+	9+	8+	11+
Dessau Consultants Inc.	10+	10+	5	5
Sinclair Energy Service Ltd.	10	6	4	2
Keen Engineering Co. Ltd. - Vancouver	10+	10+	1+	1+
Unies Limited	8	6		
McKenzie, Snowball, Skalbania and Associates Ltd.	8	3	2	
Saskmount Engineering	8	4		
Walter, Fedy, McCargar, Hatchborn	7	2	3	3
Scouten, Mitchell, Sigurdson and Assoc.	6	1	6	
Les Consultants en Conservation de l'Energie CM. Inc.	6			2
Jacques Chagnon and Assoc Inc.	5	5	5	5

TABLE 1: (cont'd). Office Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Ontario Ministry of Energy - Building Energy Conservation Centre	5		7	6
B.C. Hydro	5+		5+	5+
Galipeau, Claude and Assoc.	5	1	1	
Adept Engineering	5			
Markborough Properties Ltd.	4		2	4
J.L. Richards and Assoc.	4	1	2	
IBI Group - Edmonton		4		
Cheriton Engineering Ltd.	3	3	5	
Monarch Investment Ltd.	3	2	Yes	2
Spar Consultants Ltd.	3		3	
Forbes, Lord, Feldberg, Schmidt and Croll, Architects	3	3		
Lajoie Pellerin and Assoc.	3			
City of Fredericton	2	1	1	2
La Societe Immobiliere Marathon Ltee.	2	2	2	
Dominik, Thompson, Mallett, Proctor	2		2	1
Ender Limited			2	2
Calgary, University of	2			1
Simplex International Time Equipment Co. Limited			2	
John Richardson Associates	2			
Keen Engineering Co. Ltd. - Calgary	1	7	8	
Dean Consulting Engineering Ltd.	1	10	2	
Briggs and Assoc. Ltd.	1	1	4	1
Envirocon Eastern Ltd.	1			4
Totten, Sims, Hubicki Assoc. (1981) Ltd.	1		3	
SAR Engineering	1	1	1	
Simons, H.A. (International) Ltd.	1		1	1
Government of New Brunswick - Energy Secretariat	1		1	1
Engineering Management Services	1		1	
College Communautaire du Noveau Brunswick	1	1		
Kappele Wright and MacLeod Ltd.			1+	
Okanagan College			1	

TABLE 1: (cont'd). Office Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
N.W.T. Department of Public Works	1			
Piotrowski Consultants Ltd.	1			
McGregor-Allsop Ltd.	1			
Stanley Associates Eng. Ltd.	1			
Nova Scotia Department of Mines and Energy - Pilot Projects Program				1
Gilbert M. Rekken and Assoc. Ltd.			1	

TABLE 2: High-Rise Residential Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Ontario Housing Corporation	275		400	2+
Energy Systems Company			200	5
Engineering Interface Ltd.	140		80	100
The ECE Group	6	4	50+	10
Ontario Ministry of Municipal Affairs and Housing	20+	20+	5	20+
Nova Scotia Department of Mines and Energy - Enersave Program	30	30		
Rybka, Smith and Ginsler	5	5	30+	5
Yoneda and Associates Ltd.			25+	
C.M.A. Chalifour Marcotte and Assoc. Inc.	15	10		
Enerscan Engineering Inc.	15			
All-Energy Engineering Ltd.	10	6	3	
Robbins Elliott Assoc. Ltd.				10
The Conserver Group	6		5	3
Galipeau, Claude and Assoc.	6		6	
Les Consultants en Conservation de l'Energie CM. Inc.	6			2
Dessau Consultants Inc.	5	5	1	
H.H. Angus and Associates Ltd.	5			5
Allen Drerup White Ltd.	5			
Basic Design Assoc. Ltd.	2		2	2
J.L. Richards and Assoc.	2			
Ontario Hydro	1+	2+	4+	4+
BGH-Multi Application Techniques Inc.		3	3	
Envirocon Eastern Ltd.				3
Forbes, Lord, Feldberg, Schmidt and Croll, Architects/Engineers	1	1	1	1
Saskmount Engineering Co.	1	2		
Nova Scotia Department of Mines and Energy - Pilot Projects Program				2
NRG Consultants Inc.	1+		1+	
Kappele Wright and MacLeod Ltd.			1+	
Acres Consulting Services Ltd.	1			
B.C. Housing Management Commission	1			
Monarch Investment Ltd.	1			
Smith Carter Partners	1			
BTR Building Technology Research Group Inc.				1

TABLE 2: (cont'd) High-Rise Residential Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Ontario Ministry of Energy - Building Energy Conservation Section	1			
Lalonde, Valois, Lamarre Valois and Assoc.				1

TABLE 3: Low-Rise Residential Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Energy Conservation Information Centre	600+			
Ontario Housing Corp.	500		800+	2+
Archtech Community Energy Res. Assoc.	452	100	400	120
IEA Consulting Group Ltd.	300	300	60	60
ShawMont Newfoundland Ltd.	150	150	80	80
Unies Limited	100+	100+		100+
SAR Engineering - Vancouver (R.W. Bayenton)	100	50	50	8
Turner Development Corp.	100	100		
D. Neufeld Consulting and Research	100	20	2	2
Ontario Ministry of Municipal Affairs and Housing, R and D	60+	60+	2	60+
SAR Engineering - Vancouver (C. Mattock)	20	60	50	16
Enercon Consultants Ltd.	7	1	100+	7
Allen-Drerup-White Ltd.	50		20	30
Victory Homes Ltd.		50	50	4
HUDAC - Toronto		50-30	1	1
Alberta Agriculture Home Design Branch		50		2
The ECE Group	10		50+	
Energy Systems Company			30	
The Conserver Group Inc.	20		18	
New Brunswick, University of				30+
Ontario Ministry of Energy - Buildings Conservation Section		20		20
Yoneda and Associates Ltd.			20+	
Les Consultants en Conservation de l'Energie CM. Inc.		20		3
Adept Engineering	12			
Monarch Investments Ltd.	12		1+	
Passive Solar Designs Ltd.			10+	
Nova Scotia Mines and Energy - Pilot Projects Program				10
Alberta, University of, - Dept. of Mechanical Engineering	6	3	6	6
BGH-Multi Application Techniques Inc.		4	4	

Table 3 : (cont'd) Low-Rise Residential Buildings Sector
Firms with Case Studies Available, ranked According to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design of Installation	Building/Equipment Performance Monitor
Windsor, University of, - Dept. of Mechanical Engineering	3	3	1	4
Dirk and Price Eng. Ltd.			3	
Dessau Consultants Inc.			3	
Dirk and Price Engineering Ltd.			3	
Government of New Brunswick - Energy Secretariat	2		2	2
Government of Yukon	2	2	1	
Spar Consultants Ltd.	2		2	
Dean Consulting Engineering Ltd.		2	2	
CMA Chalifour, Marcotte et Assoc. Inc.	2			1
Ontario Ministry of Municipal Affairs, Housing Policy/Design	2			
Scouten, Mitchell, Sigurdson and Assoc.	2			
Relcon Developments Ltd.			2	
Concepts, Design and Drafting			2	
Modulus Construction			2	
Gilbert M. Rekken and Assoc.	1	2	3	1
Grolle Architect and Engineer Ltd.			5	
MCW Consultants Ltd.	1+	1+	1+	1+
Tang G. Lee Architect Ltd.	1+	1+	1+	1+
NRG Consultants Inc.	1+		1+	1+
Stanley Associates Eng. Ltd.	1	1		1
IBI Group - Toronto	1+	1+		
Zero Energy Products Ltd.			1	1
Kappele Wright and MacLeod Ltd.			1+	
B.C. Housing Management Commission	1			
Darrell Swanson Architect			1	
Piotrowski Consultants Ltd.	1			
Sun Systems Ltd.				1
N.W.T. Department of Public Works		1		
Carlo Testa Consultants				1
ICG Manufacturing Ltd.			1	
Manitoba Hydro				1
Lalonde, Valois, Lamarre Valois and Assoc. Inc.	1			

TABLE 4: Retail Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Engineering Interface Ltd.	250		150	200
The ECE Group	80	60	100+	3
Retrospectors Inc.	60-80		30	
Energy Systems Company	1		100	2
Nova Scotia Mines and Energy - Enersave Program	30	30		
Yoneda and Associates Ltd.			20+	
Government of Yukon	19	19	9	1
Keen Engineering Co. Ltd. - Calgary	19	19	19	
All-Energy Engineering Ltd.	15	2		
Scouten, Mitchell, Sigurdson and Assoc.	13		6	
Cheriton Engineering Ltd.	7	3	5	
Ontario Hydro	6+	5+	6+	6+
CMA Chalifour, Marcotte et Assoc. Inc.	6			
Robbins Elliott Assoc. Ltd.				5
Monarch Investment Ltd.	3			
Rybka, Smith and Ginsler Ltd.	2	2	20	2
Jacques Chagnon and Assoc Inc.	2	2	2	2
B.C. Hydro	2+		2+	2+
Keen Engineering Co. Ltd. - Vancouver	2+	2+		
Spar Consultants Ltd.	2		2	
Simplex International Time Equipment			2	
MCW Consultants	1+	1+	1+	1+
NRG Consultants Inc.	1+		1+	1+
SAR Engineering - Vancouver	1	1	1	
Government of New Brunswick - Energy Secretariat	1		1	1
La Societe Immobiliere Marathon Ltee.	1	1		
McKenzie, Snowball, Skalbania and Assoc.	1	1		
Zero Energy Products Ltd.			1	1
John Richardson Assoc.	1			
Smith Carter Partners Ltd.			1	
Saskmont Engineering Co.		1		
The Conserver Group	1			

TABLE 4: (cont'd) Retail Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported

Case Study Subject Area Name of Firm	Energy Audit	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
N.W.T. Department of Public Works			1	
Neill and Gunter Ltd.	1			
Nova Scotia Department of Mines and Energy - Pilot Projects Program				1
Envirocon Eastern Ltd.				1
Tang G. Lee Architect Ltd.		1+		

TABLE 5: Warehouse/Light Industrial Buildings Sectors
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Ontario Ministry of Industry and Tourism	1500	1500		
Energy Systems Company	13	13	500	10
Nova Scotia Department of Mines and Energy	100	100		
Therm-O-Comfort Co. Ltd.	87	57		
Rybka, Smith and Ginsler Ltd.	2	2	50+	2
The ECE Group	2	1	30+	
Robbins Elliott Assoc. Ltd.				30
Yoneda and Associates Ltd.	2	1	25+	
All-Energy Engineering Ltd.	25	2	3	
ShawMont Newfoundland Ltd.	25	5	7	5
City of Fredericton	22	2	1	22
Giffels Associates Ltd.	20		12	
The Conserver Group	18		11	3
Government of Yukon	17	17	6	1
Engineering Interface Ltd.	15		1	15
Neill and Gunther Ltd.	14			1
SAR Engineering	10	10		
CMA Chalifour, Marcotte et Assoc. Inc.	10	4	1	2
Acres Consulting Services Ltd.	10		2	2
Les Consultants en Conservation de l'Energie CM. Inc.	8			
Keith Associates Ltd.	5	5	3	2
Walter, Fedy, McCargar, Hatchborn	5		5	3
Piotrowski Consultants Ltd.	5		1	
Lajoie, Pellerin and Assoc. Ltee.	5		1	
J.L. Richards and Assoc. Ltd.	5			
Lalonde, Valois, Lamarre, Valois and Assoc.Inc.	4	4		
Unies Ltd.	4	2		
Ontario Hydro	3+	2+	3+	3+
Spar Consultants Ltd.	3		3	
Engineering Management Services	3		3	
La Societe Immobiliere Marathon Ltee.	3	3		
McGregor-Allsop Ltd.	3			
IBI Group - Toronto	3			
Cheriton Engineering Ltd.	2	4	3	

TABLE 5: (cont'd). Warehouse/Light Industrial Buildings Sectors
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
H.H. Angus and Assoc. Ltd.	2		1	2
Roberts-Gordon Appliance Corp.			4+	
IEA Consulting Group			2	2
Tooten, Sims, Hubicki Assoc. (1981) Ltd.	2	1	1	
Smith, Carter Partners Ltd.			2	
Regional Municipality of Hamilton Wentworth			2	2
Adept Engineering	2			1
Nova Scotia Mines/Energy - Pilot Projects Program			2	
MCW Consultants Ltd.	1+	1+	1+	1+
Keen Engineering Co. Ltd. - Calgary	1	1	1	1
B.C. Hydro	1+		1+	1+
NRG Consultants Inc.	1+		1+	
Dominik, Thompson, Mallette, Proctor	1		1	
Ontario Ministry of Energy - Building Energy Conservation			1	1
Zero Energy Products Ltd.			1	1
Kappele Wright and MacLeod Ltd.			1+	
Briggs and Associates Ltd.		1		
Hunter Enterprises Orillia Ltd.			1	
Canadian Resourcecon Ltd.	1+			
Tang. G. Lee Architect Ltd.		1+		

TABLE 6 : Restaurant Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Ontario Ministry of Industry and Trade	25	1500		
Nova Scotia Department of Mines and Energy	25	25		
Rybka, Smith and Ginsler Ltd.	6	6	50+	
The ECE Group			50+	
Yoneda and Associates			25+	
Energy Systems Company			10	
Robbins Elliott Assoc. Ltd.				10
CMA Chalifour, Marcotte and Associates Ltd.	8		3	2
Spar Consultants Ltd.	5		5	
Keith Associates Ltd.	2			
Stanley Associates Eng. Ltd.	1	1	1	1
Government of New Brunswick - Energy Secretariat	1		1	1
Government of Yukon	1	1	1	
Piotrowski Consultants	1		1	
Jacques Chagnon and Assoc Ltd.	1+		1+	
Wilson Dario and Associates	1	1		
NRG Consultants Inc.	1+			
D. Neufeld Consulting		1		
Saskmount Engineering		1		
Keen Engineering Co. Ltd.		1		
MCW Consultants Ltd.	1			

TABLE 7: School Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Nova Scotia Mines and Energy - Enersave Program	600	600		
Engineering Interface Ltd.	600		30	65
The ECE Group	5	5	200+	
CMA Chalifour, Marcotte and Assoc.	60	50	10	1
New Brunswick, Province of, Dept. of Education	60		40	40
Simplex International Time Equipment Co.			80	
Rybka, Smith and Ginsler Ltd.	1	1	70+	1
Chorley and Bisset Ltd.	50	50	50	50
Yoneda and Associates Ltd.	15	10	50+	10
Scouten, Mitchell, Sigurdson and Assoc.	31		8	20
Alberta, University of, Dept. of Physical Plant	30	13	25	30
Energy Systems Company			25	2
Guysborough County District School Board	19	19		
Tottem, Sims, Hubicki and Assoc. Ltd.	6		20+	
Dessau Consultants Inc.	15+	15+	15+	15+
John Richardson Assoc.	15			
Ontario Ministry of Industry and Trade	10	10		
Keen Engineering Co. Ltd. - Vancouver	10+	10+	Many	Many
Robbins Elliott Assoc. Ltd.				10
SED Systems Inc.	9	6	9	6
Nova Scotia Mines/Energy - Pilot Projects Program				8
Jacques Chagnon and Assoc Inc.	8+	8+	8+	8+
Calgary, University of	7			7
Les Consultants en Conservation de l'Energie CM. Inc.	7			4
J.L. Richardson and Assoc. Ltd.	7		1	
Ontario Ministry of Government Services - Property Management	6		4	6
ShawMont Newfoundland Ltd.	6		3	
Grolle Architect and Engineer Ltd.			5	
Ontario Hydro	4+	4+	4+	4+
SAR Engineering	4	4		
Unies Ltd.	4	1		
All-Energy Engineering Ltd.	3	3	3	
Cheriton Engineering Ltd.	3	2	1	

TABLE 7: (cont'd). School Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment or Design Installation	Building/Equipment Performance Monitor
Acres Consulting Services Ltd.	3	1	1	
Galipeau, Claude and Assoc.	3			
V.W. Kuchar and Assoc.			3	
The Conserver Group Inc.	3			
Allen-Drerup-White Ltd.		3		
H.H. Angus and Assoc. Ltd.	2	1	2	2
Spar Consultants Ltd.	2		2	
Keen Engineering Co. Ltd. - Calgary	2	2		
Neill and Gunter Ltd.	2		1	
McKenzie, Snowball, Skalbania and Assoc. Ltd.	2		1	
Saskmont Engineering Co. Ltd.		2		
Darrell Swanson Architect			2	
Alberta Education - School Building Branch	1+	1+	1+	1+
MCW Consultants Ltd.	1+	1+	1+	1+
Stanley Associates Eng. Ltd.	1	1	1	1
Forbes, Lord, Feldbert, Schmidt and Croll	1	1	1	1
Dominik, Thompson, Mallete, Proctor	1		1	1
NRG Consultants Inc.	1+		1+	
New Brunswick Community College	1	1		1
Government of New Brunswick - Energy Secretariat	1		1	1
Government of Yukon	1	1		
College Communautaire de Noveau Brunswick	1	1		
Wilson Dario and Associates	1	1		
Regional Municipality of Hamilton Wentworth	1			1
Tang. G. Lee Architect Ltd.		1+	1+	
Reid Crowthers and Partners Ltd. - Vancouver	1		1	
Cariboo College	1		1	
Piotrowski Consultants Ltd.	1			
N.W.T. Department of Public Works,			1	
Okanagan College			1	

TABLE 8: Hotel/Motel Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Ontario Ministry of Industry and Trade	225	225		
Nova Scotia Department of Mines and Energy	50	50		
Rybka, Smith and Ginsler Ltd.	6	6	50+	6
Energy Systems Company	1	1	30	
Engineering Interface Ltd.	25		1	10
The ECE Group	5	5	20+	
Yoneda and Associates Ltd.			12	
Robbins Elliott Assoc. Ltd.				10
Government of Yukon	9	9	5	
Dean Consulting Engineering Ltd.		4	4	
All-Energy Engineering Ltd.	4	1		
CMA Chalifour, Marcotte and Assoc. Inc.	3	3		2
Dessau Consultants Inc.	2	2	1	
SAR Engineering		2	2	1
MCW Consultants Ltd.	1+	1+	1+	1+
B.C. Hydro	1+		1+	1+
NRG Consultants Inc.	1+		1+	
Keith Associates Ltd.	1			1
Spar Consultants Ltd.	1		1	
Scouten, Mitchell, Sigurdson and Assoc.	1		1	
Nova Scotia Mines and Energy - Pilot Projects Program				1
Ontario Ministry of Energy - Building Energy Conservation			1	
ShawMont Newfoundland Ltd.	1			

TABLE 9: Hospital Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Nova Scotia Department of Mines and Energy	50	50		
Engineering Interface Ltd.	40		2	10
Yoneda and Associates Ltd.	35		25+	6
Piotrowski Consultants Ltd.	25	16	8	5
Ontario Ministry of Industry and Trade	25	25		
Rybka Smith and Ginsler Ltd.	2	2	25+	2
McGregor-Allsop Ltd.	24		12	
H.H. Angus and Associates Ltd.	21	21	6	21
The ECE Group	10	8	20+	
CMA Chalifour, Marcotte et Assoc. Inc.	12	12	3	
Energy Systems Company			10	
Simplex International Time Equipment Co			10	
Ontario Ministry of Government Services - Property Management Division	8		6	8
Cheriton Engineering Ltd.	6	2	5	
Dessau Consultants Inc.	5	5	3	2
Chorley and Bisset Ltd.	5	3		
Ontario Hydro	4+	4+	3+	4+
Walter, Fedy, McGargar, Hatchborn	4	3	4	4
All-Energy Engineering Ltd.	3	1	2	
Les Consultants en Conservation de l'Energie CM. Inc.	3			
Nova Scotia Mines and Energy - Pilot Projects Program				3
ShawMont Newfoundland Ltd. - Calgary	3			
Keen Engineering Co. - Vancouver	2-3	2-3		
Keith Associates Ltd.	2	2	2	2
Regional Municipality of Hamilton Wentworth	2			2
Acres Consulting Services Ltd.	2		1	1
Scouten, Mitchell, Sigurdson and Assoc.	2		2	
J.L. Richards and Assoc. Ltd.	2	1		
Keen Engineering Co. - Calgary		1	2	

TABLE 9 : (cont'd) Hospital Buildings Sector
Firms with Case Studies Available, ranked according to the number of buildings studies reported.

Case Study Subject Area Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Adept Engineering	2			
John Richardson Assoc.	2			
Forbes, Lord, Feldbert, Schmidt and Croll	2			
IEA Consulting Group			1	1
Dominik, Thompson, Mallette, Proctor	1		1	
Allen-Drerup-White Ltd.	1			
Envirocon Eastern Ltd.				1
Saskmont Engineering Co.		1		
Smith Carter Partners Ltd.				1
Totten, Sims, Hubicki, Assoc. (1981) Ltd.	1			
Galipeau, Claude and Assoc.	1			
Robbins Elliott Assoc. Ltd.				1
MCW Consultants Ltd.	1			
IBI Group - Calgary		1		
IBI Group - Edmonton			1	

TABLE 10: Miscellaneous Buildings Sectors
Firms with Buildings Studies Available

Buildings Sector & Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Airports				
John Richardson and Assoc.	3			
J.L. Richards and Assoc. Ltd.			1 (solar)	
Airport Maintenance				
SAR Engineering	3	3	2	
Airport Terminal				
SAR Engineering	3	3	2	
Arena				
Dessau Consultants Inc.	7			
City of Fredericton	4			4
B.C. Hydro			1	4
J.L. Richards and Assoc. Ltd.	1		1	
Auditoriums				
Saskmont Engineering Co. Ltd.		1		
Churches				
Government of Yukon	9	9	4	
Civic Centre				
Ontario Ministry of Energy - Building Energy Conservation Section			1	
Community Clubs				
Government of Yukon	5	5	3	
Correctional Institution				
Dominik, Thompson, Mallette, Proctor	1		1	1
J.L. Richards and Assoc. Ltd.	1		1	
Reid Crowther and Partners Ltd.			1	
Wilson Dario and Assoc. Ltd.			1	
Spar Consultants Ltd.	1			
Courthouse				
Ontario Ministry of Energy - Building Energy Conservation			2	2
Reid Crowthers and Partners Ltd. - Vancouver	1		1	

TABLE 10: (cont'd). Miscellaneous Buildings Sectors
Firms with Case Studies Available

Buildings Sector & Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Farms				
Ontario Hydro	5+	5+	2+	5+
Firehalls				
Spectrum Engineering Corp.	1+	+1	+1	+1
Greenhouse				
SAR Engineering - Vancouver	1			
Gym				
SAR Engineering - Vancouver	1		1	1
Heavy Industrial				
Ontario Hydro	11+	8+	10+	11+
Ontario Ministry of Energy - Building Energy Conservation				2
Parker Consultants	1+		1+	1+
Wilson Dario and Assoc. Ltd.	1	1	1	1
H.A. Simons (International) Ltd.	1		1	1
Institutional				
Wilson Dario and Assoc. Ltd.			1	
Library				
SAR Engineering - Vancouver	2		2	2
City of Fredericton	1			1
Ontario Ministry of Energy - Building Energy Conservation				1
Medium Security Prison				
Spar Consultants Ltd.	1			
Municipal				
Dessau Consultants Inc.	150			
Museum				
Reid Crowthers and Partners Ltd. - Vancouver	1		1	
Penetentiary				
Dominik, Thompson, Mallette, Proctor	1		1	1

Table 10: (contd)..Miscellaneous Buildings Sectors
Firms with Case Studies Available

Buildings Sector & Name of Firm	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Pools				
Dirk and Price Engineering Ltd.			3	
Totten, Sims, Hubicki Assoc. (1981) Ltd.	1			
Post Offices				
Reid Crowthers and Patners Ltd. Vancouver	1			1
Recreational Centres				
City of Fredericton	5			5
Ontario Ministry of Energy - Building Energy Conservation				2
SAR Engineering	1	1		
Saskmont Engineering Co.		1		
Rinks				
McNeill and Gunter Ltd.		4		
Government of New Brunswick - Energy Secretariat	1		1	1
Senior Citizen Homes				
Jacques Chagnon & Associes Inc.	2	1	1	1
Ski Resorts				
SAR Engineering			1	1
University Sciences Buildings				
Ontario Ministry of Energy - Building Energy Conservation Section				1

Table 11 : Office Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Regional Municipality of Hamilton Wentworth	boiler conversion - oil to gas - includes hot water and heating	slides	building owners building operators
Engineering Interface Ltd.	building systems - lighting - HVAC	video slides written	building operators
	management persuasion - barriers to energy conservation	video slides written	building owners
MCW Consultants Ltd.	building systems retrofit - mechanical - electrical - lighting - envelope	slides	building operators
Construction Management Institute	retrofitting courses available through educational institutions and construction associations	catalogue	construction managers
IBI Group - Toronto	space heating 'walk through' audits	written overheads	building operators building owners
CMA Chalifour, Marcotte and Associates Inc.	building systems - ventilation - air quality - controls - electrical - insulation	written slides models	building operators building managers
BGH Multi-Application	heat recovery	tables graphs schematics	architects contractors building owners
Government of New Brunswick - Energy Secretariat	retrofit projects undertaken	slides fact sheets brochures models	building owners building operators
B.C. Hydro	energy management - lighting - HVAC	fact sheets	building owners building operators
Trend Wall Industries	exterior wall retrofit	fact sheets	building owners building operators
Ontario Ministry of Government Services - Property Management Division	energy audit and analysis energy awareness and management	SUMAC computer program	building operators

Table 11: (cont'd) Office Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Ender Limited	automation systems	slides	engineers building owners building operators
Sun Systems Ltd.	solar energy collector sizing calculations	pamphlet	building operators building owners
Trane Air Conditioning	HVAC systems	'how-to' manuals slides films	building operators building owners
Ontario Hydro	lighting -HVAC -controls	slides manuals fact sheets	building owners building operators
Fredericton, City of, Energy Conservation Office	energy record keeping for municipal buildings, workbook adaptable to all commercial buildings	'how to' manuals charts	building operators municipal engineers
Nova Scotia Department of Mines and Energy - Enersave Program	energy audity	slides	building owners building operators
H.R.I.A., Heating, Refrigeration and Air Conditioning Institute	energy conservation retrofitting - energy audits - investment analysis - retrofit techniques - energy consumption monitoring	'how-to' manual charts forms worksheets	building owners building operators
Keith Associates Ltd.	comparison of various HVAC systems - design - installation - cost analysis	slides	building owners building operators
Les Consultants en Conservation de l'Energy CM. Inc.	building envelope heat loss - thermographic analysis	slides cassettes	building owners building operators
Nova Scotia Department of Mines and Energy - Pilot Projects Programs	retrofit projects undertaken	fact sheets films slides	building owners building operators
PEM Energy Systems Inc.	energy awareness and management - lighting - controls - power factor connection - peak demand control	'how-to' manual overheads	contractors consultants building managers

Table 12 : High-Rise Residential Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Engineering Interface Ltd.	building systems - lighting - HVAC	video slides written	building operators
	management persuasion - barriers to energy conservation	slides written	building owners
'BTR' Building Technology Research Group Inc.	building systems	various	building owners building operators
IBI Group - Toronto	space heating 'walk through' audits	written overheads charts	building operators building owners
CMA Chalifour, Marcotte et Assoc. Inc.	retrofit techniques - insulation - infiltration - heating - comfort levels	slides transparencies	contractors building operators
	building systems - ventilation - air quality - controls - electrical - insulation	written slides models	building operators building managers
BGH Multi-Application	heat recovery	tables graphs schematics	architects contractors building owners
B.C. Housing Management Commission	energy conservation awareness	'how-to' manual	renters building operators building owners contractors
SAR Engineering	energy audits airtightness solar heating	computer programs slides 'how-to' manual	contractors building operators
Trane Air Conditioning	HVAC Systems	'how-to' manuals slides films	building operators building owners
Ontario Hydro	lighting HVAC controls	slides manuals fact sheets	building owners building operators
Construction Management Institute	retrofitting courses available through educational institutions and construction associations	catalogue	construction managers

Table 12 : (cont'd) High-Rise Residential Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Fredericton, City of, Energy Conservation Office	energy record keeping, workbook available to all commercial buildings	'how-to' manuals charts forms	building operators municipal engineers
B.C. Hydro	energy management - lighting - HVAC	fact sheets	building owners building operators
H.R.I.A., Heating, Refrigeration and Air Conditioning Institute	energy conservation retrofitting - energy audits - investment analysis - retrofit techniques - energy consumption monitoring	'how-to' manual charts forms worksheets	building owners building operators
Keith Associates Limited	comparison of various HVAC systems - design - installation - cost analysis	slides	building owners building operators
Ontario Ministry of Municipal Affairs and Housing - Housing Renovation and Energy Conservation Unit	building energy use and conservation to property managers	'how-to' manual	building owners
Les Consultants en Conservation de l'Energy CM. Inc.	building envelope heat loss - thermographic analysis	slides cassettes	building owners building operators
Regional Municipality of Hamilton Wentworth	boiler conversion - oil to gas - includes hot water and heating	slides	building owners building operators
Trend Wall Industries	exterior wall retrofit	fact sheets	building owners building operators
Nova Scotia Department of Mines and Energy - Pilot Projects Programs	retrofit projects undertaken	fact sheets films slides	building owners building operators

Table 13 : Low-Rise Residential Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Regional Municipality of Hamilton Wentworth	weatherization - insulation - caulking - weather stripping	slides	contractors homeowners
The Conservation Store	weatherization - insulation - caulking - weather stripping	written slides models	contractors
'BTR' Building Technology Research Group Inc.	many	various	homeowners contractors
Alberta Agriculture - Home Design Branch	retrofit techniques - weather stripping - caulking - insulation - vapour barriers	films slides models	contractors homeowners
Northern Alberta Institute of Technology	construction techniques	video tapes slides photos transparencies	contractors homeowners
Zero Energy Products Ltd.	infiltration exfiltration	film	contractors
Les Consultants en Conservation de l'Energy CM. Inc.	building envelope heat loss - thermographic analysis	slides cassettes	homeowners contractors
Ontario Ministry of Municipal Affairs and Housing - Housing Renovation and Energy Conservation Unit	retrofit techniques - sealing - heating systems - windows - air vapour barriers - fireplaces - air quality - weatherstripping - insulation	brochures fact sheets models films	homeowners contractors
NRC / DBR - Saskatchewan	insulation retrofit - double wall - double roof	slides	homeowners contractors
Canadian General Standards Board	comprehensive	tapes transparancies slides manuals	inspectors
Enercon Consultants Ltd.	comprehensive	slides 'how-to' booklet	homeowners contractors

Table 13: (cont'd) Low-Rise Residential Buildings Secotr
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Victory Homes Ltd.	construction techniques weatherization energy audits payback analysis	video tapes slides models film	homeowners contractors
Adept Engineering	energy audits home energy management particular to Calgary housing	computer program 'how-to' booklet	homeowners
John Abbott College	heat gain/loss calculations renewable energy sources insulation	written slides models	homeowners contractors homeowners contractors
Optimum Financial Corp.	energy efficient housing construction techniques	models graphics video tapes	contractors
D. Neufeld Consulting and Research	retrofit construction techniques	slides written	contractors homeowners
CMA Chalifour, Marcotte et Assoc. Inc.	retrofit techniques - insulation - infiltration - heating - comfort levels	slides transparencies	homeowners contractors
Manitoba Hydro	construction and monitoring techniques	slides	homeowners contractors
IEA Consulting Group	energy audits	analysis tools training package manuals slides	homeowners contractors energy auditors
Allen-Drerup-White	building envelope - airtightness - insulation	slides	homeowners contractors
Modulus Construction	insulation	slides	contractors
Passive Solar Designs	solar heating	written manuals slides	homeowners contractor
B.C. Housing Management Commission	energy awareness energy conservation	'how-to' manual contractors	homeowners renters
Sun Systems Ltd.	solar energy - collector sizing - calculations - solar energy recovery	pamphlet slides	building owners building operators architects homeowners

Table 13: (cont'd). Low-Rise Residential Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Ontario Hydro	heating requirements - energy forecasts - caulking - weatherization - controls - insulation - ventilation - electrical systems - oil to gas conversion	slides models cassettes films	homeowners contractors
HUDAC, Toronto	construction techniques - insulation - infiltration - heat loss calculations	slides 'how-to' manuals computer programs	contractors architects
Government of New Brunswick Energy Secretariat	retrofit projects undertaken	slides fact sheets brochures models	building owners building operators
Stanley Associates Engineers Ltd.	energy awareness for NWT housing	video	homeowners
Alberta Energy and Natural Resources - Energy Conservation Branch	retrofits checklist - insulation - sealing - weather stripping - heating system	'how-to' booklets video tapes	homeowners
	retrofit techniques - materials and payback analysis	workshop materials charts tables	homeowners
	new construction and retrofit techniques a prairie approach	manual	contractors
Construction Management Institute	retrofitting courses available through educational institutions and construction associations	catalogue	construction managers
Canadian Standards Assoc.	'Energuide Directory' - consumption ratings for major appliances	pamphlet	homeowners
P.E.I. Department of Tourism Industry and Energy	'Enersave' home builders guide	booklet	contractors
Basic Design Associates Ltd.	retrofit techniques - air vapour barriers - sealing - solar orientation - heating systems - landscaping	photographs drawings	architects contractors

Table 13 : (cont'd) Low-Rise Residential Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audienae
Artech Community Energy Research Associates	construction and retrofit techniques particular to Yukon housing	slides video tapes	homeowners contractors
Ecology House	retrofit techniques - weatherization - insulation - air vapour barriers - windows - solar design - hot water - heating systems	films fact sheets workshop/seminar materials display models	homeowners contractors
Grolle Architect and Engineer Ltd.	retrofit techniques particular to Saskatchewan housing - air vapour barriers - insulation - sealing - cost benefit	brochures drawings overheads	architects homeowners contractors
SAR Engineering	low energy housing design and construction	'how-to' manual slides	architects contractors
	energy use and conservation	'how-to' manual	homeowners
	sealing	'how-to' manual	homeowners contractors
	solar heating	computer simulation program	architects
ICG Manufacturing Ltd.	furnace efficiency proper furnace sizing	seminar materials	homeowners contractors inspectors
Nova Scotia Department of Mines and Energy - Enersave Program	retrofit techniques	slides fact sheets brochures	
Nova Scotia Department of Mines and Energy - Pilot Projects Programs	retrofit projects undertaken	fact sheets films slides	building owners building operators
	building energy efficient homes	slides fact sheets	contractors
	energy saving homes	slides fact sheets brochures	homeowners

Table 14 : Retail Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Regional Municipality of Hamilton Wentworth	boiler conversion - oil to gas - includes hot water and heating	slides	building owners building operators
Engineering Interface Ltd.	building systems - lighting - HVAC	video slides written	building operators
	management persuasion - barriers to energy conservation	video slides written	building owners
Construction Management Institute	retrofitting	written instructional manuals	construction managers
IBI Group - Toronto	space heating 'walk through' audits	written overheads charts	building operators building owners
CMA Chalifour, Marcotte et Assoc. Inc.	building systems - ventilation - air quality - controls - electrical - insulation	written slides models	building operators building managers
BGH Multi-Application	heat recovery	tables graphs schematics	architects contractors building owners
Trane Air Conditioning	HVAC systems	'how-to' manuals slides films	building operators building owners
Ontario Hydro	lighting - HVAC - controls	slides manuals	owners operators
Government of New Brunswisk Energy Secretariat	retrofit projects undertaken	slides fact sheets brochures	building owners building operators
Nova Scotia Department of Mines and Energy - Enersave Program	energy audits	slides	building owners building operators
Fredericton, City of, Energy Conservation Office	energy record keeping for municipal buildings, workbook adaptable to all commercial buildings	'how-to' manuals charts	building operators municipal engineers

Table 14: (cont'd) Retail Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
B.C. Hydro	energy management - lighting - HVAC	fact sheets	building owners building operators
H.R.I.A., Heating, Refrigeration and Air Conditioning Institute	energy conservation retrofitting - energy audits - investment analysis - retrofit techniques - energy consumption monitoring	'how-to' manual charts forms	building owners building operators
Keith Associates Limited	comparison of various HVAC systems - design - installation - cost analysis	slides	building owners building operators
Les Consultants en Conservation de l'Energy CM. Inc.	building envelope heat loss - thermographic analysis	slides cassettes	building owners building operators
Trend Wall Industries	exterior wall retrofit	fact sheets	building owners building operators
PEM Energy Systems Inc.	energy awareness and management - lighting - controls - power factor connection - peak demand control	'how-to' manual overheads	contractors consultants building managers

Table 15 : Warehouse/Light Industrial Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Regional Municipality of Hamilton Wentworth	boiler conversion - oil to gas - includes hot water and heating	slides	building owners building operators
Engineering Interface Ltd.	management persuasion - barriers to energy conservation	video slides written	building owners
Canadian Manufacturers' Assoc.	energy planning and management	catalogue	building owners building operators
Construction Management Institute	retrofitting courses available through educational institutions and construction associations	catalogue	construction managers
IBI Group - Toronto	space heating 'walk through' audits	written overheads charts	building operators building owners
CNA Chalifour, Marcotte et Assoc. Inc.	building systems - ventilation - air quality - controls - electrical - insulation	written slides models	building operators building owners
SAR Engineering	energy audits - airtightness - solar heating	computer programs slides 'How-to' manual	contractors building operators
Trane Air Conditioning	HVAC systems	'How-to' manual slides films	building operators building owners
Ontario Hydro	lighting - HVAC - controls	slides manuals	building owners building operators
Sun Systems Limited	solar energy - collector sizing - calculations	pamphlet	building owners building operators
Nova Scotia Department of Mines and Energy - Enersave Program	energy audits	slides	building owners building operators
Fredericton, City of, Energy Conservation Office	energy record keeping for municipal buildings, workbook adaptable to all commercial buildings	'How-to' manuals charts	building operators municipal engineers

Table 15 : (cont'd) Warehouse/Light Industrial Buildings Sectors
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
B.C. Hydro	energy management - lighting - HVAC	fact sheets	building owners building operators
H.R.I.A., Heating Refrigeration and Air Conditioning Institute	energy conservation retrofitting - energy audits - investment analysis - retrofit techniques - energy consumption monitoring	'how-to' manual charts	building owners building operators
Keith Associates Limited	comparison of various HVAC systems - design - installation - cost analysis	slides	building owners building operators
Les Consultants en Conservation de l'Energy CM. Inc.	building envelope heat loss - thermographic analysis	slides cassettes	building owners building operators
Ontario Ministry of Industry and Trade	combustion systems process systems building shell	slides cassettes films	building owners building operators plant engineers
SGH Multi-Applications	heat recovery	tables graphs schematics	architects contractors building owners
Trend Wall Industries	exterior wall retrofit	fact sheets	building owners building operators
Nova Scotia Department of Mines and Energy - Pilot Projects Programs	retrofit projects undertaken	fact sheets films slides	building owners building operators
PEM Energy Systems Inc.	energy awareness and management - lighting - controls - power factor connection - peak demand control	'how-to' manual overheads	contractors consultants building managers

Table 16 : Restaurant Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Engineering Interface Ltd.	management persuasion - barriers to energy conservation	video slides written	building owners
Construction Management Institute	retrofitting courses available through educational institutions and construction associations	catalogue	construction managers
IBI Group - Toronto	space heating 'walk through' audits	written overheads charts	building operators building owners
CMA Chalifour, Marcotte et Assoc. Inc.	building systems - ventilation - air quality - controls - electrical - insulation	written slides models	building operators building managers
BGH Multi-Applications	heat recovery	tables graphs schematics	architects contractors building owners
Trane Air Conditioning	HVAC systems	'how-to' manuals slides films	building operators building owners
Ontario Hydro	lighting HVAC controls	slides manuals	building owners building operators
Sun Systems Limited	solar energy collector sizing calculations	pamphlet	building owners building operators
Nova Scotia Department of Mines and Energy - Enersave Program	energy audits	slides	building owners building operators
Fredericton, City of, Energy Conservation Office	energy record keeping for municipal buildings, workbook adaptable to all commercial buildings	'how-to' manuals charts	building operators municipal engineers
B.C. Hydro	energy management - lighting - HVAC	fact sheets	building owners building operators

Table 16 : (cont'd) Restaurant Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
H.R.I.A., Heating, Refrigeration and Air Conditioning Institute	energy conservation retrofitting - energy audits - investment analysis - retrofit techniques - energy consumption monitoring	'how-to' manual charts forms worksheets	building owners building operators
Keith Associates Limited	comparison of various HVAC systems - design - installation - cost analysis	slides	building owners building operators
Les Consultants en Conservation de l'Energy CN. Inc.	building envelope heat loss - thermographic analysis	slides cassettes	building owners building operators
Trend Wall Industries	exterior wall retrofit	fact sheets	building owners building operators
Nova Scotia Department of Mines and Energy - Pilot Projects Programs	retrofit projects undertaken	fact sheets films slides	building owners building operators
PEM Energy Systems Inc.	energy awareness and management - lighting - controls - power factor connection - peak demand control	'how-to' manual overheads	contractors consultants building managers

Table 17 : School Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
Engineering Interface Ltd.	building systems - lighting - HVAC	video slides written	building operators
	management persuasion - barriers to energy conservation	video slides written	building owners
Construction Management Institute	retrofitting courses available through educational institutions and construction associations	catalogue	construction managers
IBI Group - Toronto	space heating 'walk through' audits	written overheads charts	building operators
CMA Chalifour, Marcotte et Assoc. Inc.	building systems - ventilation - air quality - controls - electrical - insulation	written slides models	building operators building owners
SAR Engineering	energy audits airtightness solar heating	computer programs slides 'how-to' manual	contractors building operators
Trane Air Conditioning	HVAC systems	'how-to' manual slides films	building operators
Ontario Hydro	lighting HVAC control systems	slides manuals	building owners building operators
Alberta, University of, Dept. of Physical Plant	retrofit techniques monitoring system	pamphlets	building operators
Fredericton, City of, Energy Conservation Office	energy record keeping for municipal buildings, workbook adaptable to all commercial buildings	'how-to' manuals charts forms	building operators
Sun Systems Limited	solar energy collector sizing calculations	pamphlet	building operators
Nova Scotia Department of Mines and Energy - Enersave Program	energy audits	slides	building operators

Table 17 : (cont'd) School Buildings Sector
Firms with Educational Aids Available

Firm	Topic	Medium	Target Audience
B.C. Hydro	energy management - lighting - HVAC	fact sheets	building operators
H.R.I.A., Heating, Refrigeration and Air Conditioning Institute	energy conservation retrofitting - energy audits - investment analysis - retrofit techniques - energy consumption monitoring	'how-to' manual - charts - forms - worksheets	building owners building operators
Keith Associates Limited	comparison of various HVAC systems - design - installation - cost analysis	slides	building owners building operators
BGH Multi-Applications	heat recovery	tables graphs schematics	architects contractors building owners
Les Consultants en Conservation de l'Energy CM. Inc.	building envelope heat loss - thermographic analysis	slides cassettes	building owners building operators
Regional Municipality of Hamilton Wentworth	boiler conversion - oil to gas - includes hot water and heating	slides	building owners building operators
Trend Wall Industries	exterior wall retrofit	fact sheets	building owners building operators
Nova Scotia Department of Mines and Energy - Pilot Projects Programs	retrofit projects undertaken	fact sheets films slides	building owners building operators
PEM Energy Systems Inc.	energy awareness and management - lighting - controls - power factor connection - peak demand control	'how-to' manual overheads	contractors consultants building managers

APPENDIX I

SURVEY QUESTIONAIRE

Energy, Mines and Resources Canada is currently sponsoring a research, development and dissemination program in building energy conservation entitled the "Buildings Energy Technology Transfer Program". The building categories under study and corresponding lead agencies are listed below:

	BUILDING SECTORS	LEAD AGENCY
1.	office and medium to high-rise residential	Ontario Research Foundation
2.	low-rise residential	Saskatchewan Research Council
3.	warehouse and light industrial	University of Waterloo
4.	restaurant	University of Manitoba
5.	retail	Concordia University

In addition to the above noted sectors it is anticipated that this program will be expanded to include such buildings as hospitals, hotels/motels and schools.

Each lead agency is required to develop and execute a comprehensive building energy conservation R and D program in their respective sector(s) and to transfer the technological know-how to building owners, designers, builders and operators in a form which is technically and economically sound, up to date, suitable for immediate application by building practitioners and satisfies their requirements for technical advice.

In order to provide this information to the intended target audiences it is necessary that well documented case studies of building retrofit or operational improvements to effect energy conservation be accessed. The Ontario Research Foundation, on behalf of the Building Technology Support Program, is attempting to solicit relevant case study data.

We are also attempting to compile a bank of educational aids such as A.V. presentations, seminar/workshop materials and 'how-to' publications relevant to building energy conservation.

As a first step in this process we wish to identify those firms involved in retrofitting buildings for energy conservation. To assist us in this process we would appreciate your completion of the attached form. Please return it to:

Steven P. Hope
Assistant Program Coordinator
Department of Engineering
and Metallurgy
Ontario Research Foundation
Sheridan Park Research Community
Mississauga, Ontario.
L5K 1B3

tel: (416) 822-4111

This information will be reviewed and those firms with experience in our areas of interest will be contacted regarding the purchase of case studies and educational aids.

Name of Firm: _____

Address: _____

_____

_____

Telephone No.: _____

Contact: _____

Please complete the following table indicating the NUMBER of buildings you have been involved with under the appropriate level and building sector.

Have performed:	Energy Audits	Computer Analysis	Equipment Design or Installation	Building/Equipment Performance Monitor
Office				
High Rise Residential				
Low Rise Residential				
Retail				
Warehouse/Light Industrial				
Restaurant				
School				
Hotel/Motel				
Hospital				

Approximate cost to purchase each case study:_____

Have educational aids that could be made available: ____Yes ____No

APPENDIX II

CASE STUDIES and EDUCATIONAL AIDS SURVEY
MAILING LIST RECIPIENTS and RESPONDENTS

ABBDL Inc.
85 Ouest rue St. Catherine
Montreal, Quebec
H2X 3P4

ACR Mechanical Systems Ltd.
Suite 4
13692-72nd Avenue

Acres Consulting Services Ltd.
1124 Northside Road
Burlington, Ontario
L7M 1H4
Contact: B.D. Deuchars, P.Eng.
Tel: (416) 335-6771

Acres Consulting Services Ltd.
5259 Dorchester Road
P.O. Box 1001
Niagara Falls, Ontario
L2E 6W1

ACRO Foam and Woodcrafts Ltd.
RR#2 Sherwood Park
Edmonton, Alberta
T8A 3K2

Adept Engineering
3916B - 3A Street N.E.
Calgary, Alberta
T2E 6R4
Contact: R.A. Godderis
Tel: (403) 230-3736

ADI Limited
1115 Regent Street
Box 44, Station 'A'
Fredericton, N.B.
E3B 4Y2

Adsett and Associates
9 Robinson Drive
Fredericton, N.B.
E3A 1L7

A.E.B. Engineering Group
304-11th Avenue S.W.
Calgary,Alberta
T2R 1J8

Airco Products Limited
1331 Clark Drive
Vancouver, B.C.
V5L 3L1

Alberta Advanced Education
and Manpower
4th Floor, Devonian Building
East Tower
11160 Jasper Avenue
Edmonton, Alberta
T5K 0L1

Alberta Agriculture - Home
Design Branch
7000 - 113 Street, 2nd Floor
Edmonton, Alberta
T6H 5T6

Contact: Donald Wharton
Tel: (403) 427-2181

Alberta Construction Association
10569-109 Street
P.O. Box 3830, Station D
Edmonton, Alberta
T5L 4J8

Alberta Education
School Buildings Branch
Devonian Building, West Tower
11160 Jasper Avenue
Edmonton, Alberta
T5K 0L2

Contact: Warren Hathaway
Tel: (403) 427-8214

Alberta Energy
and Natural Resources
Energy Conservation Branch
2nd Floor, Highfield Place
10010-106 Street
Edmonton, Alberta
T5J 3L8

Contact: Stephen Tyler
Tel: (403) 427-5200

Alberta Housing Corporation
9405 50th Street
Edmonton, Alberta

Alberta Leland
15606-116th Avenue
Edmonton, Alberta
T5M 3S5

Alberta Research Council
4th Floor, Terrace Plaza
4445 Calgary Trail South
Edmonton, Alberta
T6H 5R7

Alberta, University of
Dept. of Mechanical Engineering
Edmonton, Alberta
T6G 2G8

Contact: J.D. Dale
Tel: (403) 432-5317

Alberta, University of
Department of Physical Plant
Edmonton, Alberta
T6G 2H1

Contact: Kevin Moodie
Tel: (403) 432-3737

Albery, Pullerits, Dickson
and Associates
29 Gervais Drive
Don Mills, Ontario
M3C 1Y9

Algonquin College
1385 Woodroffe Avenue
Ottawa, Ontario
K2G 1V8

Algonquin College
281 Echo Drive Station 'E'
p.O. Box 4501
Ottawa, Ontario
K1S 5G3

Allen-Drerup-White Ltd.
Suite 505
334 King Street E.,
Toronto, Ontario
M5A 1K8

Contact: Elizabeth White
Tel: (416) 863-1762

All-Energy Engineering ltd.
Suite 207-A
7001 Mumford Road
Halifax, N.S.
B3L 4N9

Contact: D.B. Baker, P.Eng.
Tel: (902) 455-1448

Allsopp, Morgan Engineering Ltd.
Consulting Engineers
10650-113 Street
Edmonton, Alberta
T5H 3H6

Allsopp, R.P. and Associates
(1971) Limited
Consulting Engineers
178 Torbay Road
Markham, Ontario
L3R 1G9

All West Energy Consultants Ltd.
646 Henderson Drive
Regina, Saskatchewan
S4N 5X1

Alternate Energy Homes Ltd.
4102-51st Avenue
P.O. Box 598
Beaumont, Alberta
T0C 0H0

Amalgamated Construction
Association of B.C.
Construction House
2675 Oak Street
Vancouver, B.C.
V6H 2K1

Amber Home Ltd.
1016-8 St.E.
Saskatoon, Sask.
S7H 0S2

Angers, Drouin, Simard and
Associates Ltee.
Ingenieurs-Conseils
No. 210
855, boulevard Hamel ouest
Les Saules, Quebec
G2E 2G6

Angus, Butler Engineering (1980)
Consulting Mechanical and
Electrical Engineers
11055-107 Street
Edmonton, Alberta
T5H 2Z6

Angus, H.H. and Associates Ltd.
Consulting Engineers
1127 Leslie Street
Don Mills, Ontario
M3C 2J6

Contact: I. Austerweil
Peter Willings
Tel: (416) 449-5050

Appin Solar Associates
13-77 Rue Eugenie
Winnipeg, Manitoba

Apra Advance Planning and
Research for Architects
A110-355 Burrard Street
Vancouver, British Columbia
V6C 2G9

Architectural Resource
Consultants Limited
6436 Quinpool Road
Halifax, N.S.
B3L 1A8

Arctech Community Energy
Research Associates
4 Peel Road
Whitehorse, Yukon
Y1A 3K8

Contact: Wayne Wilkinson
Mike Youso
Tel: (403) 667-6182

Ardec Consulting Engineers
Suite 400
112 Merton Street
Toronto, Ontario
M4S 2Z9

A.S.K. Architects
P.O. Box 1644
Yellowknife, N.W.T.

Associated Engineering Services Ltd.
805-8th Avenue S.W.
Calgary, Alberta

Associated Engineering Services Ltd.
13140 St. Albert Trail
Edmonton, Alberta
T5L 4R8

Associated Engineering Services Ltd.
575 Park
Regina, Saskatchewan
S4N 5B2

Association des Manufacturer
Canadiens (Quebec)
1080 Beaver Hall, #904
Montreal, Quebec
H2Z 1S8

Association of Consulting Engineers
of Canada
130 Albert Street
Suite 616
Ottawa, Ontario
K1P 5G4

Association of Municipalities
of Ontario
100 University Avenue
Suite 902
Toronto, Ontario
M5J 1V6

Contact: Judith Adams
Tel: (416) 593-1477

Association of Professional
Engineers of Ontario
1027 Yonge Street
Toronto, Ontario
M4W 3E5

Associates Design and
Development Ltd.
P.O. Box 2967
Halifax, N.S.
B3J 2Z1

Atkinson and Associates
Suite 250
385 The West Mall
Etobicoke, Ontario
M9C 1E7

Atlantic Region Management Centre
P.O. Box 1000
Halifax, Nova Scotia
B3J 2X4

Austin Co. Ltd.
302 The East Mall
Islington, Ontario
M9B 6C7

Avalon Construction and
Engineering Ltd.
O'Leary Avenue
St. John's, Newfoundland
A1B 2C7

Ayres Dechert Architects Planners
907-18 Ave. S.W.
Calgary, Alberta
T2T 0H2

Aysler-Morton Canada
Division of Lee Wilson Eng. Co.
of Canada Limited
3500 Dufferin Street
Downsview, Ontario
M3K 1N2

Ball, F.D. and Associates Ltd.
80 Richmond West
Toronto, Ontario
M5H 2A4

Barre, Pellerin, Lemoine Inc.
Suite 300
4274 avenue Papineau
Montreal, Quebec
H2H 2P4

Basic Design Associates Ltd.
71 Broad Street
Box 28
Sussex, New Brunswick
E0E 1P0

Contact: Don Loucks, MRAIC, AANB
Tel: (506) 433-5821

Bassett Associates Inc.
4795 St. Catherine St. W.,
Montreal, Quebec
H3Z 1S8

Baziuk, A.R. Architect Ltd.
97th Street
Edmonton, Alberta
T5H 2L3

BBL Inc.
Suite 1100
1134 Ste. Catherine St. W.,
Montreal, Quebec
H3B 1H4

B.C. Construction Assoc.
International Plaza
Suite 208
1999 Marine Drive
North Vancouver, B.C.
V7P 3Js

B.C. Development Corp.
200 Granville
Vancouver, B.C.
V6C 1S4

B.C. Energy Insulation
Contractors Assn.
242 - 4299 Canada Way
Burnaby, B.C.
V5G 1H3

B.C. Housing
Management Commission
206-515 West 10th Avenue
Vancouver, B.C.
V5Z 4A8

Contact: Jim Ainscough
Manager Technical
Services
Tel: (604) 873-0313

B.C. Hydro
625 Howe Street
Vancouver, B.C.
V6C 2T6

Contact: T.J. Newton

B.C. Institute of Technology
3700 Willingdon Avenue
Burnaby, B.C.
V5G 3H2

B.C. Ministry of Education
835 Humbolt Street
Victotia, B.C.
V8V 2M4

B.C. Research
3650 Westbrook Crescent
Vancouver, B.C.
V6S 2L2

B.C., University of
Engineering Programs
Centre for Continuing Education
5997 Iona Drive
Vancouver, B.C.
V6T 2A4

B.C., University of
2075 Westbrook Place
Vancouver, B.C.
V6T 1W5

Beach Appliances International Ltd.
75 Spencer Road
Ottawa, Ontario
K1Y 2P6

Bean, J.M. and Co. Ltd.
1965 West 4th Avenue
Vancouver, B.C.
V6J 1M8

Beaton, D.J. and Assoc. Ltd.
Architects and Engineers
P.O. Box 35
Halifax, Nova Scotia
B3J 2L4

Beauchemin-Beaton-Lappointe Inc.
Consultants
1134 St. Catherine St. W.
Montreal, Quebec

Beinhacker/Irwin Associates
Architect Engineers
6th Floor
166 Front Street West
Toronto, Ontario
M5J 2L6

Belzile, Brassard, Galliene,
Lavoie, Dallaire
Architects Associes.
Longueil, Quebec.

Bennet and White Western Ltd.
707 CN Towers
Saskatoon, Sask.
S7X 1J5

Berkeley Renovations
267 Berkeley Street
Toronto, Ontario
M5A 2X3

Bertbuilt Solar Engineering
201-10025-113 St.
Edmonton, Alberta
T5K 2K8

Bessette, Crevier, Parent,
Tanquay and Associates
40 ouest boul. Cremazie
Bureau 101
Montreal, Quebec
H2P 1B9

BFH Shawinigan Inc.
6e etage
620 Dorchester Street West
Montreal, Quebec
H3B 3L7

RFH Shawinigan
130 Slater Street
Ottawa, Ontario
K1P 5H6

BGH-Multi Application Techniques Inc.
209 St. Joseph Blvd. W.
Montreal, Quebec
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Underwood McLellan and Assoc. Ltd.
17007 - 107 Avenue
Edmonton, Alberta
T5S 1G3

UNIES Ltd.
1666 Dublin Avenue
Winnipeg, Manitoba
R3H 0H1

Contact: G. Proskiw
Tel: (204) 633-6363

United Power Limited
7759 Edmonds Street
Burnaby, B.C.
V3N 1B9

Universal Dynamics Limited
Consulting Engineers
204-1107 Seymour Street
Vancouver, B.C.
V6B 3M7

Upright Brothers Limited
16655-113th Avenue
Edmonton, Alberta
T5Y 2X2

Vancouver Community College
Central Administration
675 West Hastings Street
2nd Floor
Vancouver, B.C.
V6B 1N2

Vanier College
821 Ste. Croix Boulevard
St. Laurent
Montreal, Quebec
H4L 3X9

Veznia, Fortier and Assoc.
3300 boul. Cavendish
Bureau 385
Montreal, Quebec
H4B 2M8

Victory Homes Ltd. and
N.H.F. Engineering Ltd.
350 - 103rd Street
Saskatoon, Saskatchewan
S7N 1Z1

Victory Homes Ltd.
#1-3002 Louise Street
Saskatoon, Sask.
S7J 3L8

Contact: Keith Hanson
Tel: (306) 374-4959

Vinto Engineering Ltd.
1131 West Broadway
Vancouver, B.C.
V6H 1G1

Vinto Engineering Ltd.
10950-119 Street
Edmonton, Alberta
T5H 3P2

Vladimir Plavisc Group
Architects Planners-Urban Designers
1520 Alberni Street
Vancouver, B.C.
V6G 1A3

Vukovich, M.M. Consulting
Architect and Engineer
360 Torrance Street
Burlington, Ontario
L7R 2R9

Walsh, E.J. and Co. Ltd.
3091 Jarrow Drive
Mississauga, Ontario
L4X 2C6

Walter, Fedy, McCargar,
Hachborn
546 Belment Ave. W.,
P.O. Box 368
Kitchener, Ontario
N2G 3V9

Contact: M.J. Marshman, P.Eng
Tel: (519) 576-2150

Wardrop, W.L. and Assoc. Ltd.
77 Main Street
Winnipeg, Manitoba
R3C 3H1

Wascana Institute
4635 Wascana Parkway
P.O. Box 556
Regina, Sask.
S4P 3A3

Wasnea Allen and Partners Ltd.
105 - 10424 123 Street
Edmonton, Alberta
T5N 1N7

Waterloo,University of
Waterloo Research Institute
Waterloo, Ontario
N2L 3G1

Westburne Industrial Enterprises Ltd.
6333 Decarie Blvd.
Montreal. Que.
H3W 3E1

Westform Development Corp. Ltd.
800-5240 Calgary Trail
Edmonton, Alberta
T6H 4J7

Wetmore, G.E. Engineering Ltd.
111 George
Hamilton, Ontario
L8P 1E3

White-Rodgers Controls
Division Emerson Electric Canada Ltd.
P.O. Box 207
Markham, Ontario
L3P 3J7

Whitman, Benn and Assoc. Ltd.
Suite 212
Duke Street Tower
Halifax, Nova Scotia
B3J 1N9

Whitney-Smith Co. Ltd.
626 Colborne
London, Ontario
N6B 2V2

Wiebe Forest Group Ltd.
604-24A Street N.W.
Calgary, Alberta
T2N 2S4

Williams, A.D. Engineering Ltd.
650 One Thornton Court
9800 Jasper Avenue
Edmonton, Alberta
T5J 2E7

Wilson, Dario and Assoc.
Consulting Engineers
1400 Windsor Avenue
Windsor, Ontario
N8X 3L9

Contact: C.C. Hales
Tel: (519) 258-8004

Wilson, Roy Architect Ltd.
709 - 11 Avenue S.W.
Calgary, alberta
T2R 0E3

Wimpey Western
3720 - 76th Avenue
Edmonton, Alberta
T5J 2N7

Wind Dynamics Ltd.
Box 506
Coleman, Alberta
T0K 0M0

Windsor Furnace Limited
800 Ottawa Road
Windsor, Ontario
N8X 2C6

Windsor, University of
Windsor,
Department of Mechanical Engineering
Windsor, Ontario
N9B 3P4
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Winnipeg Construction Assoc.
P.O. Box 737
290 Burnell Street
Winnipeg, Manitoba
R3C 2L4

W.J.F. Consulting Partnership Ltd.
13245 - 146 Street
Edmonton, Alberta
T5L 4S8

Wood, Banani Assoc.
384 Bank Street
Ottawa, Ontario

Wood, John Limited
101 Hanson Road
Toronto, Ontario
M4C 1A2

Wylain Canada Ltd.
126 East Drive
Brampton, Ontario
L6T 1C2

Yewchuk Engineering Ltd.
102-10908-106 Avenue
P.O. Box 5366
Edmonton, Alberta
T5P 4C9

Yonenda and Assoc. Ltd.
200 Towne Square
1919 Rose Street
Regina, Saskatchewan
S4P 3P1

Contact: George Bourassa, P.Eng
President
Tel: (306) 525-5267

York University
Centre for Research in
Experimental Space Sciences
4700 Keele Street
Toronto, Ontario

Yuill, G.K. and Associates
7 1329 Niakwa Road
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Yukon Department of Tourism
and Economic Development
P.O. Box 2703
Whitehorse, Yukon
J1A 2C6

Yukon, Government of
P.O. Box 2703
Whitehorse, Yukon
Y1A 2C6

Contact: Bob Baxter
Tel: (403) 667-5384

Yukon Industrial Insulation
Compartment 39, Site 12, RR#1
Whitehorse, Yukon
Y1A 4Z6

Zero Energy Products Ltd.
2218 Ave. C. North
Saskatoon, Saskatchewan
S7L 6C3

Contact: W.G. Dyck
President
Tel: (306) 665-2022

POOR

QUALITY

ORIGINAL